

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022425\
 Data File : VX045022.D
 Acq On : 24 Feb 2025 10:16
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 00:25:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.891	128	19388	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	105099	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	96021	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	54623	29.007	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.700%	
60) 4-Bromofluorobenzene	11.079	95	54124	30.157	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.533%	
63) Toluene-d8	8.641	98	158594	29.855	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.533%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	34015	20.812	ug/l	93
3) Chloromethane	1.300	50	39888	20.376	ug/l	99
4) Vinyl Chloride	1.374	62	37577	19.893	ug/l	100
5) Bromomethane	1.593	94	13546	20.602	ug/l	95
6) Chloroethane	1.666	64	21548	21.062	ug/l	94
7) Trichlorofluoromethane	1.874	101	51029	20.100	ug/l	99
8) Diethyl Ether	2.130	74	19175	19.962	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	30670	20.340	ug/l	100
10) 1,1-Dichloroethene	2.312	96	29008	19.696	ug/l	90
11) Methyl Iodide	2.447	142	25005	15.000	ug/l	95
12) Methyl Acetate	2.697	43	38201	22.336	ug/l	97
13) Acrolein	2.233	56	44656	130.264	ug/l	99
14) Acrylonitrile	3.056	53	86920	104.047	ug/l	98
15) Acetone	2.380	58	26921	117.501	ug/l	92
16) Carbon Disulfide	2.501	76	82767	19.812	ug/l	97
17) Allyl chloride	2.654	41	54421	19.756	ug/l	97
18) Methylene Chloride	2.782	84	32485	19.610	ug/l	97
19) trans-1,2-Dichloroethene	3.081	96	29907	20.071	ug/l	93
20) Diisopropyl ether	3.751	45	106269	20.075	ug/l	98
21) 1,1-Dichloroethane	3.599	63	58109	19.738	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	35861	20.084	ug/l	100
23) tert-Butyl Alcohol	2.971	59	30896	105.939	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	96808	20.139	ug/l	100
25) Chloroform	5.080	83	57897	20.360	ug/l	95
26) Cyclohexane	5.452	56	53523	19.696	ug/l #	96
29) 1,1-Dichloropropene	5.678	75	39328	20.342	ug/l	99
30) 2-Butanone	4.550	43	124403	111.405	ug/l	100
31) 2,2-Dichloropropane	4.458	77	45256	20.702	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	47928	20.460	ug/l	99
33) Carbon Tetrachloride	5.666	117	41122	20.801	ug/l	94
34) Benzene	6.031	78	125107	20.635	ug/l	97
35) Methacrylonitrile	4.910	41	24947	20.877	ug/l	93
36) 1,2-Dichloroethane	6.080	62	42815	20.627	ug/l #	84
37) Trichloroethene	7.117	130	29099	20.516	ug/l	94
38) Methylcyclohexane	7.373	83	53249	20.513	ug/l	97
39) 1,2-Dichloropropane	7.421	63	30261	20.076	ug/l	99
40) Dibromomethane	7.574	93	22092	20.425	ug/l	99
41) Bromodichloromethane	7.818	83	43480	20.225	ug/l	99
42) Vinyl Acetate	3.715	43	445779	102.873	ug/l	99

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Quant Time: Feb 25 00:25:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	45942	21.938	ug/l	98
44) Isopropyl Acetate	6.330	43	73046	21.193	ug/l	98
45) 1,4-Dioxane	7.659	88	15737	439.218	ug/l	99
46) Methyl methacrylate	7.690	41	35622	21.077	ug/l	99
47) n-amyl Acetate	10.841	43	61797	20.662	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	40791	19.686	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	48564	20.704	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	29237	20.723	ug/l	96
51) Ethyl methacrylate	9.116	69	43618	19.657	ug/l	98
52) 1,3-Dichloropropane	9.305	76	51204	20.713	ug/l	99
53) Dibromochloromethane	9.518	129	32413	20.772	ug/l	97
54) 1,2-Dibromoethane	9.604	107	29736	20.756	ug/l	99
55) 2-Chloroethyl vinyl ether	8.232	63	97617	85.669	ug/l	99
56) Bromoform	10.799	173	20955	21.431	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	238438	109.161	ug/l	100
59) 2-Hexanone	9.427	43	174848	110.746	ug/l	99
61) Tetrachloroethene	9.269	164	25348	21.438	ug/l	97
62) Toluene	8.714	91	131575	20.685	ug/l	99
64) Chlorobenzene	10.073	112	81824	20.759	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	26851	20.645	ug/l	99
66) Ethyl Benzene	10.189	91	140795	20.218	ug/l	97
67) m/p-Xylenes	10.299	106	107652	41.491	ug/l	100
68) o-Xylene	10.640	106	52578	20.653	ug/l	100
69) Styrene	10.652	104	86568	20.360	ug/l	99
70) Isopropylbenzene	10.957	105	137275	20.896	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	46531	21.539	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37575m	21.147	ug/l	
73) Bromobenzene	11.195	156	31551	20.862	ug/l	99
74) n-propylbenzene	11.299	91	162228	20.751	ug/l	99
75) 2-Chlorotoluene	11.360	91	97738	20.679	ug/l	99
76) 1,3,5-Trimethylbenzene	11.445	105	113802	20.998	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	11524	19.277	ug/l	90
78) 4-Chlorotoluene	11.451	91	109615	20.805	ug/l	100
79) tert-butylbenzene	11.713	119	115756	21.198	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	113697	20.943	ug/l	98
81) sec-Butylbenzene	11.890	105	143605	20.954	ug/l	100
82) p-Isopropyltoluene	12.006	119	116616	21.000	ug/l	99
83) 1,3-Dichlorobenzene	11.963	146	58417	20.760	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	57620	20.768	ug/l	99
85) n-Butylbenzene	12.329	91	104924	20.691	ug/l	99
86) Hexachloroethane	12.536	117	20463	20.895	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	58299	21.116	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8805	21.051	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	35049	20.945	ug/l	97
90) Hexachlorobutadiene	13.725	225	14648	21.465	ug/l	98
91) Naphthalene	13.774	128	122941	20.836	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	35502	20.608	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

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